

WHAT IS CLAIMED IS:

1. A disk player for rotating a disk and reads information recorded on the disk, the disk player comprising:

5 a cabinet;

a disk tray on which the disk is placed and retractively disposed in the cabinet;

a clamper plate made of steel in which both ends thereof being bridged between wall parts provided on both  
10 sides of the cabinet;

a turntable disposed in the cabinet and moves the disk placed on the disk tray in an up-and-down direction, and rotates the disk;

a clamper engaged in a guide hole formed in a center  
15 of the clamper plate so as to move in an up-and-down direction within a predetermined range, and clamps the disk with the turntable;

an optical pickup that reads the information recorded on the disk;

20 a reinforcement portions in which formed by folding up both side edges of the clamper plate;

an annular reinforcement projection formed by partially bending the clamper plate in a downward direction and surrounds the periphery of the guide hole;

25 linear reinforcement projections extending from the

annular reinforcement projection toward both ends of the clamper plate;

screw receiving seats formed by folding both ends of the clamper plate at center part in a downward direction;

5       recess cradles into which the screw receiving seats are fitted, and formed in the wall parts of the cabinet at a position where opposed to the screw receiving seats;

a pair of elongated holes formed in both ends of the clamper plate;

10       a pair of positioning protrusions protrusively provided in the wall parts of the cabinet, and into which the pair of elongated holes are respectively fitted;

side plate parts formed by perpendicularly folding both ends of the clamper plate in a downward direction,  
15 the plate parts that abut on outsides of the wall parts of both sides of the cabinet;

engagement pieces protrusively provided on outsides of the wall parts of the cabinet; and

engagement openings formed on each of the side plate  
20 parts and removably engages with the engagement pieces,

wherein the reinforcement portions are spirally formed by closely folding up both side edges of the clamper plate in a manner of winding at least two times,

wherein protrusion depths of the screw receiving  
25 seats are configured to be slightly smaller than or equal

to depths of the recess cradles, and

wherein the clamper plate is fixed to the wall parts of the cabinet by screws that are screwed into screw holes formed on the recess cradles through the screw receiving  
5 seats, whereby both ends of the clamper plate are pushed on upper surfaces of the wall parts.

2. A disk player for rotating a disk and reads information recorded on the disk, the disk player comprising:

10 a cabinet;

a disk tray on which the disk is placed and retractively disposed in the cabinet;

a clamper plate made of steel in which both ends thereof being bridged between wall parts provided on both  
15 sides of the cabinet;

a turntable disposed in the cabinet and moves the disk placed on the disk tray in an up-and-down direction, and rotates the disk;

a clamper engaged in a guide hole formed in a center  
20 of the clamper plate so as to move in an up-and-down direction within a predetermined range, and clamps the disk with the turntable;

an optical pickup that reads the information recorded on the disk; and

25 a reinforcement portions in which formed by folding

up both side edges of the clamper plate.

3. The disk player according to claim 2, wherein the reinforcement portions are spirally formed by closely folding up both side edges of the clamper plate in a manner of winding at least two times.

4. The disk player according to claim 2, wherein the reinforcement portions are formed in folded shape by closely folding both side edges of the clamper plate into two for two times.

10 5. The disk player according to claim 2 further comprising:

an annular reinforcement projection formed by partially bending the clamper plate in a downward direction and surrounds the periphery of the guide hole; and

15 linear reinforcement projections extending from the annular reinforcement projection toward both ends of the clamper plate.

6. The disk player according to claim 2 further comprising:

20 screw receiving seats formed by folding both ends of the clamper plate at center part in a downward direction; and

recess cradles into which the screw receiving seats are fitted, and formed in the wall parts of the cabinet at a position where opposed to the screw receiving seats,

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wherein protrusion depths of the screw receiving seats are configured to be slightly smaller than or equal to depths of the recess cradles,

wherein the clamper plate is fixed to the wall parts  
5 of the cabinet by screws that are screwed into screw holes formed on the recess cradles through the screw receiving seats, whereby both ends of the clamper plate are pushed on upper surfaces of the wall parts.

7. The disk player according to claim 2 further  
10 comprising:

a pair of elongated holes formed in both ends of the clamper plate;

a pair of positioning protrusions protrusively provided in the wall parts of the cabinet, and into which  
15 the pair of elongated holes are respectively fitted; and

side plate parts formed by perpendicularly folding both ends of the clamper plate in a downward direction, the plate parts that abut on outsides of the wall parts of both sides of the cabinet.

20 8. The disk player according to claim 7 further comprising:

engagement pieces protrusively provided on outsides of the wall parts of the cabinet; and

engagement openings formed on each of the side plate  
25 parts and removably engages with the engagement pieces.